

SYMBOLS SCHEDULE												
LIGHT FIXTURES		S _K WP	SINGLE-POLE TOGGLE SWITCH – KEY OPERATED AND WEATHERPROOF TYPE	NURSE CALL		cd	CANDELA	MATV	MASTER ANTENNA TELEVISION SYSTEM	TPS	TWISTED SHIELDED	
SYMBOL	DESCRIPTION		MULTI-LEVEL SWITCHING: Sa – SWITCHES 2 OUTER LAMPS Sb – SWITCHES INNER LAMP(S)	SYMBOL	DESCRIPTION	CLF	CURRENT LIMITING FUSE	MC	METAL–CLAD	TTB	TELEPHONE TERMINAL BOARD	
	FLUORESCENT LIGHT FIXTURE – CEILING MOUNTED		S ₁	DIGITAL TIMER SWITCH – HUBBELL #TD200 OR APPROVED EQUAL		NURSE CALL PULL STATION	CMU	CONCRETE MASONRY UNIT	MCA	MINIMUM CIRCUIT AMPS	TV	TELEVISION
	FLUORESCENT LIGHT FIXTURE CONNECTED TO EMERGENCY POWER SOURCE		S _{LV}	LOW VOLTAGE SWITCH (AS NOTED ON PLANS)		NURSE CALL LIGHT – CEILING MOUNTED	COAX	COAX CABLE	MCB	MAIN CIRCUIT BREAKER	TYP	TYPICAL
	FLUORESCENT STRIP LIGHT – CEILING MOUNTED OR CHAIN HUNG			DUPLEX RECEPTACLE		NURSE CALL LIGHT – WALL MOUNTED	CPT	CONTROL POWER TRANSFORMER	MCC	MOTOR CONTROL CENTER	UG	UNDERGROUND
	FLUORESCENT STRIP LIGHT CONNECTED TO EMERGENCY POWER SOURCE		QUADRAPLEX RECEPTACLE		NURSE CALL DUTY STATION	CRI	COLOR RENDERING INDEX	MDP	MAIN DISTRIBUTION PANEL	UGE	UNDERGROUND ELECTRIC	
	FLUORESCENT STRIP LIGHT – WALL MOUNTED		DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP – VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS		EMERGENCY NURSE CALL	CT	CURRENT TRANSFORMER	MH	MANHOLE	UL	UNDERWRITERS LABORATORY	
	FLUORESCENT LIGHT FIXTURE – WALL MOUNTED		DUPLEX RECEPTACLE – GROUND FAULT INTERRUPTING, SURGE PROTECTION, & WEATHERPROOF TYPES INDICATED		NURSE CALL STAFF STATION	CU	COPPER	MD	MOTION INTRUSION DETECTION	UON	UNLESS OTHERWISE NOTED	
	POLE MOUNTED AREA LIGHTING		DUPLEX RECEPTACLE – GROUND FAULT INTERRUPTING, SURGE PROTECTION, & WEATHERPROOF TYPES INDICATED			DISC	DISCONNECT	MIN	MINIMUM	UPS	UNINTERRUPTABLE POWER SUPPLY	
	INCANDESCENT, FLUORESCENT, OR HID DOWNLIGHT FIXTURE – CEILING MOUNTED		RED DUPLEX RECEPTACLE CONNECTED TO EMERGENCY POWER SOURCE	SECURITY <th>DC</th> <td>DIRECT CURRENT</td> <th>MOCP</th> <td>MAXIMUM OVERCURRENT PROTECTION</td> <th>V</th> <td>VOLT</td>		DC	DIRECT CURRENT	MOCP	MAXIMUM OVERCURRENT PROTECTION	V	VOLT	
	INCANDESCENT, FLUORESCENT, LED, OR HID DOWNLIGHT FIXTURE – CEILING MOUNTED – CONNECTED TO EMERGENCY POWER SOURCE		RED QUADRAPLEX RECEPTACLE CONNECTED TO EMERGENCY POWER SOURCE	SYMBOL	DESCRIPTION <th>DPDT</th> <td>DOUBLE POLE, DOUBLE THROW</td> <th>MLO</th> <td>MAIN LUGS ONLY</td> <th>VA</th> <td>VOLT AMPERE</td>	DPDT	DOUBLE POLE, DOUBLE THROW	MLO	MAIN LUGS ONLY	VA	VOLT AMPERE	
	INCANDESCENT, FLUORESCENT, OR HID LIGHT FIXTURE – WALL MOUNTED		ISOLATED GROUND TYPE DUPLEX RECEPTACLE		CARD READER	DPST	DOUBLE POLE, SINGLE THROW	MTD	MOUNTED	VAR	VOLT AMPERE REACTIVE	
	EMERGENCY LIGHT FIXTURE		DUPLEX RECEPTACLE IN FLUSH MTD CAST FLOOR OR CEILING BOX		MAGNETIC DOOR LOCK	EG	EQUIPMENT GROUND	MTG	MOUNTING	VFD	VARIABLE FREQUENCY DRIVE	
	EXIT LIGHTS – WALL MT. & CEILING MT. SHOWN – SHADING INDICATES FACE(S), DIRECTIONAL ARROWS SHALL BE AS SHOWN ON PLANS		SPECIAL PURPOSE OUTLET – NEMA CONFIGURATION (VOLTAGE, AMPACITY) AS NOTED ON DRAWINGS		EGRESS BUTTON (TO RELEASE MAGNETIC DOOR LOCK)	EMI	ELECTROMAGNETIC INTERFERENCE	MTS	MANUAL TRANSFER SWITCH	W	WATT	
			CLOCK OUTLET		EMERGENCY EGRESS BUTTION (DISCONNECTS POWER TO MAGENTIC DOOR LOCK)	EMT	ELECTRICAL METALLIC TUBING	MV	MEDIUM VOLTAGE	WH	WATER HEATER	
LIGHTING CONTROLS			CLOCK AND CLOCK OUTLET		PANIC/DURESS BUTTON	EP	EXPLOSION PROOF	MVA	MEGAVOLT–AMPERE	WP	WEATHERPROOF	
SYMBOL	DESCRIPTION		EMPTY OUTLET BOX WITH BLANK COVERPLATE – NUMBER INDICATES NUMBER OF GANGS		INTRUSION DETECTION SYSTEM MOTION SENSOR (CEILING OR WALL MOUNTED AS INDICATED)	EPO	EMERGENCY POWER OFF	MW	MEGAWATTS	XPMR	TRANSFORMER	
S _{OC}	OCCUPANCY SENSOR SWITCH – HUBBELL #LHMTHL OR APPROVED EQUAL				CCTV CAMERA (FIXED)	EW	ELECTRIC WATER COOLER	NA	NOT APPLICABLE	NOTE: 1. NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT. 2. SYMBOLS SHOWN DASHED ON PLANS INDICATES EXISTING DEVICES, FIXTURES, EQUIPMENT, ETC., UNLESS SPECIFICALLY NOTED OTHERWISE.		
	OCCUPANCY SENSOR – SUBSCRIPT DENOTES TYPE				CCTV CAMERA (PAN–TILT–ZOOM)	EPD <td>ELECTRIC WATER HEATER</td> <th>NC</th> <td>NORMALLY CLOSED</td> <th colspan="2"></th>	ELECTRIC WATER HEATER	NC	NORMALLY CLOSED			
	POWER PACK FOR OCCUPANCY SENSOR(S)	DATA / TELECOMM		INTERCOM / SOUND SYSTEM		FAAP	FIRE ALARM ANNUNCIATOR PANEL	NEC	NATIONAL ELECTRICAL CODE			
	DAYLIGHT HARVESTING PHOTOSENSOR	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	FACP	FIRE ALARM CONTROL PANEL	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION			
			TELEPHONE OUTLET – NUMBER INDICATES QUANTITY OF JACKS – NO NUMBER EQUALS ONE JACK		SPEAKER	FC	FOOTCANDLE	NEUT or N	NEUTRAL			
			TELEPHONE OUTLET – WALL MOUNTED @ 48" A.F.F. U.O.N.		VOLUMN CONTROL	FLA	FULL LOAD AMPS	NFDS	NON–FUSED DISCONNECT SWITCH			
			TELEPHONE OUTLET – MOUNTED ABOVE COUNTER TOP – VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS		INTERCOM OUTLET	FLEX	FLEXIBLE METALLIC CONDUIT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION			
			PUBLIC TELEPHONE OUTLET MOUNTED 48" A.F.F.			FVR	FULL VOLTAGE NON–REVERSING	NIC	NOT IN CONTRACT			
GEAR				MISCELLANEOUS		FVR	FULLVOLTAGE REVERSING	NL	NIGHT LIGHT			
SYMBOL	DESCRIPTION		COMPUTER DATA OUTLET – NUMBER INDICATES QUANTITY OF JACKS – NO NUMBER EQUALS ONE JACK	SYMBOL	DESCRIPTION	G or GRD	GROUND	NO	NORMALLY OPEN			
	MOTOR STARTER		COMBINATION DATA/COMMUNICATIONS OUTLET (1) VOICE JACK (2) DATA JACKS		JUNCTION BOX – PURPOSE & LOCATION AS NOTED	GEN	GENERATOR	NTS	NOT TO SCALE			
	COMBINATION MOTOR STARTER / DISCONNECT SWITCH		EMERGENCY POWER OFF STATION (REMOTE SHUNT TRIP) – REFER TO "POWER RISER DIAGRAM"		THERMOSTAT – E.C. TO FURNISH & INSTALL BACKBOX & 1/2" CONDUIT TO ABOVE ACCESSIBLE CEILING & TERMINATE	GFI	GROUND FAULT INTERRUPTER	OC	ON CENTER			
	DISCONNECT SWITCH		PUSHBUTTON STATION (DETAILS AS NOTED ON PLANS)		MUSHROOM HEAD PUSHBUTTON	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	OD	OUTSIDE DIAMETER			
	TRANSFORMER		PROGRAM BELL		POKE–THRU FLOOR BOX – TYPE AS NOTED ON DRAWINGS OR AS SPECIFIED IN DIVISION 16	HID	HIGH INTENSITY DISCHARGE	OHE	OVERHEAD ELECTRIC			
	CONTACTOR		VIDEO OUTLET		TELEVISION OUTLET	HOA	HAND–OFF–AUTOMATIC	PA	PUBLIC ADDRESS			
	SURFACE MOUNTED PANELBOARD		TIME CLOCK		TERMINAL BOARD – PLYWOOD BACKBOARD AS NOTED ON PLANS	HP	HORSEPOWER	PBPU	PREFABRICATED BEDSIDE PATIENT UNIT			
	FLUSH MOUNTED PANELBOARD		TEMPERATURE CONTROL PANEL (BY OTHERS)		REMOTE MOUNTED BALLAST	HT	HEIGHT	PEC	PHOTOELECTRIC CELL			
CIRCUITRY			FIRE ALARM AUDIO/VISUAL DEVICE – NUMBER INDICATES INDICATES MINIMUM CANDELA RATING OF STROBE	ABBREVIATIONS		HT	HERTZ	PF	POWER FACTOR			
SYMBOL	DESCRIPTION		FIRE ALARM STROBE ONLY – NUMBER INDICATES MINIMUM CANDELA RATING OF STROBE	AC	ABOVE COUNTER	IG	ISOLATED GROUNDING	PH	PHASE			
	BRANCH CIRCUIT IN CONDUIT – SWITCH LEG, PHASE LEG, NEUTRAL, ISOLATED GROUND, AND EQUIPMENT GROUND INDICATED		FIRE ALARM PULL STATION	AFF	ABOVE FINISH FLOOR	IMC	INTERMEDIATE METAL CONDUIT	PNL	PANELBOARD			
	CIT		HEAT DETECTOR	AFG	ABOVE FINISH GRADE	INCAND	INCANDESCENT	PT	POTENTIAL TRANSFORMER			
	CONDUIT CONCEALED IN OR BELOW FLOOR SLAB OR BELOW GRADE		SMOKE DETECTOR	AIC	AMPERE INTERRUPTING CAPACITY	IR	INFRARED	PVC	POLYVINYL CHLORIDE			
	EXISTING CONDUIT		DUCT MOUNTED SMOKE DETECTOR	ATS	AUTOMATIC TRANSFER SWITCH	IWH	INSTANTANEOUS WATER HEATER	RCP	REFLECTED CEILING PLAN			
	FLEXIBLE CONDUIT		DUCT MTD SMOKE DETECTOR REMOTE TEST STATION	AV	AUDIO VISUAL	JB or J-BOX	JUNCTION BOX	RGSC	RIGID GALVANIZED STEEL CONDUIT			
	EMERGENCY CIRCUIT(S) (SHOWN WITH NON-ARCHED LINES)		FLOW SWITCH (FURNISHED BY DIVISION 15)	kV	KILOVOLT	kV	KILOVOLT AMPERE	RMS	ROOT MEAN SQUARE			
			TAMPER SWITCH (FURNISHED BY DIVISION 15)	kVA	KILOVOLT AMPERE	kVAH	KILOVOLT AMPERE PER HOUR	SOC	SHORT CIRCUIT CAPACITY			
			ZONE ADDRESSABLE MODULE – CONTROL TYPE	kVAR	KILOVOLT AMPERE REACTIVE	kVAR	KILOVOLT AMPERE REACTIVE	SDBC	SOFT–DRAWN BARE COPPER			
			ZONE ADDRESSABLE MODULE – MONITOR TYPE	kW	KILOWATT	kW	KILOWATT	SES	SERVICE ENTRANCE SECTION			
			ZONE ADDRESSABLE MODULE – SIGNAL TYPE	kWH	KILOWATT HOUR	kW	KILOWATT	SF	SQUARE FOOT (FEET)			
			INDIVIDUAL ADDRESSABLE MODULE	kWHM	KILOWATT HOUR METER	kWH	KILOWATT HOUR	SP	SURGE PROTECTION			
S ₄	FOUR-WAY TOGGLE SWITCH		FIRE ALARM SPEAKER ONLY	LED	LIGHT EMITTING DIODE	kWHM	KILOWATT HOUR METER	SPST	SINGLE POLE, SINGLE THROW			
S _D	DIMMER CONTROL SWITCH OR STATION (AS SPECIFIED ON PLANS AND/OR RISER)		"AREA OF RESCUE" EMERGENCY LIGHT	LFS	LINEAR FEET (FOOT)	kWHM	KILOWATT HOUR METER	SWBD	SWITCHBOARD			
S _W	MANUAL MOTOR STARTER WITH OVERLOADS, TOGGLE OPERATED		"AREA OF RESCUE" 2-WAY COMMUNICATION STATION	LPS	LOW PRESSURE SODIUM	kWHM	KILOWATT HOUR METER	SWGR	SWITCHGEAR			
S _K	SINGLE-POLE TOGGLE SWITCH – KEY OPERATED		DOOR HOLDER (FURNISHED BY DIVISION 8)	LRA	LOCKED ROTOR AMPS	LPS	LOW PRESSURE SODIUM	TC	TIME CLOCK			
S _{IC}	SINGLE-POLE TOGGLE SWITCH – INTERCHANGEABLE LINE			C	CONDUIT	LRA	LOCKED ROTOR AMPS	TGB	TELECOMMUNICATIONS GROUND BAR			
S ₃ ^{IC}	THREE-WAY TOGGLE SWITCH – INTERCHANGEABLE LINE			CATV	COMMUNITY ANTENNA TELEVISION	LRA	LOCKED ROTOR AMPS	TMGB	TELECOMMUNICATIONS MAIN GROUND BAR			
				CCTV	CLOSED CIRCUIT TELEVISION	LV	LOW VOLTAGE	TP	TWISTED PAIR			

NOTE:
1. NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT.
2. SYMBOLS SHOWN DASHED ON PLANS INDICATES EXISTING DEVICES, FIXTURES, EQUIPMENT, ETC., UNLESS SPECIFICALLY NOTED OTHERWISE.

- GENERAL NOTES
- ALL WORK SHALL COMPLY WITH THE 2011 EDITION OF THE NATIONAL ELECTRIC CODE (N.E.C.).
 - THE SPECIFICATIONS ARE AS BINDING ON THE CONTRACTOR AS THE DRAWINGS. THE CONTRACTOR SHALL READ THE SPECIFICATIONS AND SHALL INCLUDE ALL ITEMS REQUIRED BY THE SPECIFICATIONS BEFORE SUBMITTING A BID.
 - MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED. ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID COPPER, EXCEPT WHERE FLEXIBILITY IS REQUIRED, AND ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER USING BOLTED LUGS AT TERMINALS UNLESS OTHERWISE NOTED.
 - MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS OTHERWISE NOTED. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED. ALL CONDUIT IN OR BELOW FLOOR SLABS AND BELOW GRADE SHALL BE 1" MINIMUM UNLESS OTHERWISE NOTED.
 - EACH CIRCUIT SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR, AND MULTI-WIRE CIRCUITS OF DIFFERENT PHASES MAY SHARE THE EQUIPMENT GROUND. EQUIPMENT GROUND CONDUCTOR SIZE SHALL NOT BE LESS THAN #12 AWG OR AS INDICATED ON THE DRAWINGS.
 - ALL ELECTRICAL EQUIPMENT (CONDUIT, BOXES, SUPPORTS, ETC.) INSTALLED IN EXPOSED CEILING AREAS SHALL BE PAINTED AS DIRECTED BY THE ARCHITECT.
 - VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT, INCLUDING THERMOSTATS, WITH MECHANICAL CONTRACTOR.
 - VERIFY EXACT LOCATION OF ALL FLOOR BOXES WITH ARCHITECT PRIOR TO ROUGH-IN AND FLOOR SLAB POUR.
 - THE ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE WITH MECHANICAL & PLUMBING CONTRACTORS FOR EXACT LOCATION OF HVAC & PLUMBING EQUIPMENT.
 - THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SIZING OF ALL MOTOR OVERLOAD DEVICES (HEATERS) IN STARTERS BASED ON ACTUAL NAMEPLATE RATINGS ON THE MOTORS BEING INSTALLED PER N.E.C. 430.6(A)(2).
 - ALL LOW VOLTAGE INTERLOCKING OF HVAC EQUIPMENT SHALL BE BY THE CONTROLS CONTRACTOR. ALL "LINE VOLTAGE" CONTROLS SHALL BE BY THE ELECTRICAL CONTRACTOR AND SHALL BE IN CONDUIT.
 - PROVIDE ENGRAVED NAMEPLATES ON ALL OF THE FOLLOWING EQUIPMENT:
 - PANELBOARDS, DISCONNECT SWITCHES, MANUAL & AUTOMATIC STARTERS, COMBINATION STARTER/DISCONNECTS, TRANSFORMERS
 - REFER TO SECTION 16195 OF THE ELECTRICAL SPECIFICATIONS.
 - PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED SWITCHGEAR, PANELBOARDS, AND TRANSFORMERS. CONCRETE HOUSEKEEPING PADS SHALL EXTEND A MINIMUM OF 6" BEYOND THE FOOTPRINT OF THE EQUIPMENT ON ALL FOUR (4) SIDES. EXACT DIMENSIONAL REQUIREMENTS OF ALL PADS MUST BE CHECKED AGAINST APPROVED SHOP DRAWINGS OF THE EQUIPMENT.

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engineer is an offense under the
Oklahoma Engineering Practice Act.



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APPROVED:	APPROVED:	APPROVED: Industrial Hygienist	APPROVED: Chief of Staff
APPROVED:	APPROVED:	APPROVED: President A.F.G.E. 2250	APPROVED: Chief of Engineering Service

DRAWING TITLE ELECTRICAL SCHEDULES		PROJECT TITLE REPLACE LABORATORY AIR HANDLING UNITS		DATE 8/19/2013
PROJECT NO. 623-11-107		CONTRACT NO. VA256-12-C-0295		SCALE AS SHOWN
BUILDING NO. CLINICAL		AUTOCAD FILE NAME:		DRAWING NO. G13.0
		LOCATION Jack C. Montgomery VA Medical Center		DWG. 3 OF 40

DEPARTMENT OF
VETERANS AFFAIRS